INTERNATIONAL SEARCH REPORT

International application No.

PCT/JP2004/003196

Ā.	CLASSIFICATION OF SUBJECT MATTER				
	17	TO 1 00 /00	DO 11100 /00	1100117	

Int.Cl⁷ F21S2/00, F21V23/00, H02M7/48

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

Int.Cl⁷ F21S2/00, F21V23/00, H02M7/48

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Jitsuyo Shinan Koho 1922–1996 Jitsuyo Shinan Toroku Koho 1996–2004

Jitsuyo Shinan Koho Kokai Jitsuyo Shinan Koho

1971-2004

Toroku Jitsuyo Shinan Koho

1994-2004

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

C. DOCUMENTS CONSIDERED TO BE RELEVANT .

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.	
X Y	<pre>JP 2003-18850 A (Toshiba Lighting & Technology Corp.), 17 January, 2003 (17.01.03), Par. Nos. [0014], [0015], [0033]; Fig. 6 (Family: none)</pre>	1,12 2-11	
Y	JP 2000-173536 A (Toshiba Lighting & Technology Corp.), 23 June, 2000 (23.06.00), Par. Nos. [0028], [0043] & US 2002-0167264 A1 & EP 001341208 A2	2-11	
Υ .	JP 6-310271 A (Iwasaki Electric Co., Ltd.), 04 November, 1994 (04.11.94), Page 2, column 1, line 47 to column 2, line 15 (Family: none)	3,4	

×	Further documents are listed in the continuation of Box C.		See patent family annex.
"A" "E" "L" "O" "P"	Special categories of cited documents: document defining the general state of the art which is not considered to be of particular relevance earlier application or patent but published on or after the international filing date document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) document referring to an oral disclosure, use, exhibition or other means document published prior to the international filing date but later than the priority date claimed	"T" "X" "Y"	later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art document member of the same patent family
	of the actual completion of the international search 09 June, 2004 (09.06.04)	Date	of mailing of the international search report 29 June, 2004 (29.06.04)

Authorized officer

Telephone No.

Form PCT/ISA/210 (second sheet) (January 2004)

Japanese Patent Office

Name and mailing address of the ISA/

Facsimile No.

INTERNATIONAL SEARCH REPORT

International application No.
PCT/JP2004/003196

Citation of document, with indication, where appropriate, of the relevant JP 2002-75012 A (Matsushita Electric Indu Co., Ltd.), 15 March, 2002 (15.03.02), Par. No. [0041]; Fig. 2 (Family: none) JP 2000-82303 A (Toshiba Lighting & Techn Corp.),	strial .	Relevant to claim No.
Co., Ltd.), 15 March, 2002 (15.03.02), Par. No. [0041]; Fig. 2 (Family: none) JP 2000-82303 A (Toshiba Lighting & Technicorp.),	·	
Corp.),	ology	
21 March, 2000 (21.03.00), Par. Nos. [0125], [0126] & US 006252357 B1		9
Corp.), 30 July, 1992 (30.07.92),		. 10,11
JP 2002-298608 A (Toshiba Lighting & Tech Corp.), 11 October, 2002 (11.10.02), Par. No. [0043] (Family: none)	nology	10,11
JP 2002-289143 A (Toshiba Lighting & Tech Corp.), 04 October, 2002 (04.10.02), Full text; Fig. 1 (Family: none)	nology	
<pre>JP 7-85708 A (Toshiba Lighting & Technolo Corp.), 31 March, 1995 (31.03.95), Par. No. [0023] (Family: none)</pre>	āλ	6
		•
		•
	Par. Nos. [0125], [0126] & US 006252357 B1	Par. Nos. [0125], [0126] & US 006252357 B1

INTERNATIONAL SEARCH REPORT

International application No.
PCT/JP2004/003196

Box No.	II (Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)
This inte	rnational : Claims N	search report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:
	because	they relate to subject matter not required to be searched by this Authority, namely:
2.	Claims N because t extent th	Nos.: they relate to parts of the international application that do not comply with the prescribed requirements to such an at no meaningful international search can be carried out, specifically:
3.	Claims N	los.: they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).
Box No.	m (Observations where unity of invention is lacking (Continuation of item 3 of first sheet)
This Inte	ernational	Searching Authority found multiple inventions in this international application, as follows:
our 2003 comm	search 1885 Ion fea Rule 1	common to claims 1-12 is a matter described in claim 1. However, in has found that the common matter, as is disclosed in document JP 0, does not clearly involve an inventive step. Consequently the ature is not "a special technical feature" within the meaning of 3.2, second sentence, since it makes no contribution over the prior
Acc and	ording there	gly, there exists not special technical feature among claims 1-12, fore they do not fulfill the requirement of unity.
1.	As all req claims.	uired additional search fees were timely paid by the applicant, this international search report covers all searchable
2. 🔀	As all sear any additi	chable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of onal fee.
3.	As only so only those	ome of the required additional search fees were timely paid by the applicant, this international search report covers e claims for which fees were paid, specifically claims Nos.:
٠		
4.	No requir restricted	ed additional search fees were timely paid by the applicant. Consequently, this international search report is to the invention first mentioned in the claims; it is covered by claims Nos.:
Remark	on Protes	t
		No protest accompanied the payment of additional search fees.